





PAGER Version 4

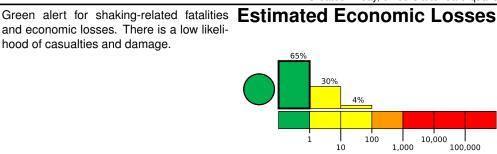
Created: 1 day, 0 hours after earthquake

M 6.3, 98 km ENE of Hachinohe, Japan

Origin Time: 2020-12-20 17:23:22 UTC (Mon 03:23:22 local) Location: 40.8660° N 142.5596° E Depth: 35.0 km

Estimated Fatalities 10,000

and economic losses. There is a low likelihood of casualties and damage.



Estimated Population Exposed to Earthquake Shaking

							<u> </u>			
ESTIMATED POPULATION EXPOSURE (k=x1000)		_*	1,394k*	2,246k	157k	0	0	0	0	0
ESTIMATED MODIFIED MERCALLI INTENSITY		I	II-III	IV	V	VI	VII	VIII	IX	X+
PERCEIVE	SHAKING	Not felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
POTENTIAL DAMAGE	Resistant Structures	None	None	None	V. Light	Light	Moderate	Mod./Heavy	Heavy	V. Heavy
	Vulnerable Structures	None	None	None	Light	Moderate	Mod./Heavy	Heavy	V. Heavy	V. Heavy

^{*}Estimated exposure only includes population within the map area.

Population Exposure

population per 1 sq. km from Landscan

5000 10000 142.8°E 144.1°E Date hizunai-furukawach Muroran lachinohe Morioka (liyako

PAGER content is automatically generated, and only considers losses due to structural damage. Limitations of input data, shaking estimates, and loss models may add uncertainty.

Structures

Overall, the population in this region resides in structures that are resistant to earthquake shaking, though vulnerable structures exist. The predominant vulnerable building types are heavy wood frame and reinforced/confined masonry construction.

Historical Earthquakes

Date	Dist.	Mag.	Max	Shaking
(UTC)	(km)		MMI(#)	Deaths
1994-12-28	82	7.7	VII(130k)	3
1983-05-26	295	7.7	VII(174k)	104
1993-07-12	355	7.7	VIII(4k)	200

Recent earthquakes in this area have caused secondary hazards such as landslides and fires that might have contributed to losses.

Selected City Exposure

from G	eoNames.org	
MMI	City	Population
٧	Uchimaru	<1k
٧	Hachinohe	239k
IV	Misawa	43k
IV	Furudate	<1k
IV	Inuotose	<1k
IV	Ichinohe	16k
IV	Aomorishi	298k
IV	Hirosaki	175k
IV	Morioka	295k
IV	Hakodate	276k
Ш	Tomakomai	175k

bold cities appear on map.

(k = x1000)

Event ID: us7000csqe